CLAIMS

- 1. A method for removing leukocytes comprising causing a leukocyte-containing liquid to pass through a leukocyte removal filter comprising nonwoven fabric having an average fiber diameter of 0.3 to 3.0 μm to remove leukocytes from the leukocyte-containing liquid and to obtain a leukocyte-free liquid, and further comprising using nonwoven fabric having a formation index y of 50 or less corresponding to a thickness of 0.3 mm .
- 2. The method for removing leukocytes according to claim 1, wherein the nonwoven fabric has a filling rate of 0.05 to 0.30.
- 3. The method for removing leukocytes according to claim 1 or 2, wherein the nonwoven fabric has a formation index y of 50 or less corresponding to a thickness of 0.3 mm, and y satisfies the following inequality.
 - y < -4 × average fiber diameter of nonwoven fabric (μ m) + 55
- 4. The method for removing leukocytes according to any of claims 1 to 3, wherein the nonwoven fabric is obtained by using a melt-blown method.
- 5. The method for removing leukocytes according to any of claims 1 to 4, comprising: using a leukocyte removal filter comprising a filter for removing aggregate upstream of the nonwoven fabric according to any of claims 1 to 4 and/or a post-filter downstream of the nonwoven fabric.
- 6. The method for removing leukocytes according to any of claims 1 to 5, wherein the leukocyte removal filter is a flat filter having an inlet and an outlet for liquid.
 - 7. The method for removing leukocytes according to any of claims 1 to 5, wherein

the leukocyte removal filter is a cylindrical filter having an inlet and an outlet for liquid.

- 8. The method for removing leukocytes according to claim 6, wherein a container of the leukocyte removal filter is formed of a flexible resin.
- 9. The method for removing leukocytes according to any of claims 1 to 8, comprising: causing the leukocyte-containing liquid selected from whole blood, red cell concentrate, platelet concentrate, platelet rich plasma, and platelet poor plasma to pass through the leukocyte removal filter.
- 10. The method for removing leukocytes according to any of claims 1 to 9, comprising: causing the leukocyte-containing liquid to pass through the leukocyte removal filter by utilizing head drop.
- 11. The method for removing leukocytes according to any of claims 1 to 9, comprising: causing the leukocyte-containing liquid to pass through the leukocyte removal filter by increasing pressure of the inlet side of the leukocyte removal filter and/or reducing pressure of the outlet side of the leukocyte removal filter.
- 12. The method for removing leukocytes according to any of claims 1 to 8 and 11, comprising: performing extracorporeal circulation by continuously collecting whole blood from a body of a patient, causing the collected whole blood to pass through the leukocyte removal filter, and returning the leukocyte-free whole blood to the body of the patient.
- 13. Use of a leukocyte removal filter having a formation index y of 50 or less corresponding to a thickness of 0.3 mm for a leukocyte removal method comprising removing leukocytes from a leukocyte-containing liquid by using a leukocyte removal filter comprising nonwoven fabric having an average fiber diameter of 0.3 to 3.0 µm.

- 14. The use of a leukocyte removal filter according to claim 13, wherein the nonwoven fabric has a filling rate of 0.05 to 0.30.
- 15. The use of a leukocyte removal filter according to claim 13 or 14, wherein the nonwoven fabric has a formation index y of 50 or less corresponding to a thickness of 0.3 mm, and y satisfies the following inequality.
 - $y < -4 \times$ average fiber diameter of nonwoven fabric (μ m) + 55
- 16. The use of a leukocyte removal filter according to any of claims 13 to 15, wherein the nonwoven fabric is obtained by using a melt-blown method.
- 17. The use of a leukocyte removal filter according to any of claims 13 to 16, wherein the leukocyte removal filter comprises a filter for removing aggregate upstream of the nonwoven fabric according to any of claims 13 to 16 and/or a post-filter downstream of the nonwoven fabric.
- 18. The use of a leukocyte removal filter according to any of claims 13 to 17, wherein the leukocyte removal filter is a flat filter having an inlet and an outlet for liquid.
- 19. The use of a leukocyte removal filter according to any of claims 13 to 17, wherein the leukocyte removal filter is a cylindrical filter having an inlet and an outlet for liquid.
- 20. The use of a leukocyte removal filter according to claim 18, wherein a container of the leukocyte removal filter is formed of a flexible resin.
- 21. The use of a leukocyte removal filter according to any of claims 13 to 20, for removing leukocytes from the leukocyte-containing liquid selected from whole blood, red

cell concentrate, platelet concentrate, platelet rich plasma, and platelet poor plasma.

- 22. The use of a leukocyte removal filter according to any of claims 13 to 21, for causing the leukocyte-containing liquid to pass through the leukocyte removal filter by utilizing head drop.
- 23. The use of a leukocyte removal filter according to any of claims 13 to 21, for causing the leukocyte-containing liquid to pass through the leukocyte removal filter by increasing pressure of the inlet side of the leukocyte removal filter and/or reducing pressure of the outlet side of the leukocyte removal filter.
- 24. The use of a leukocyte removal filter according to any of claims 13 to 20 and 23, for continuously collecting whole blood from a body of a patient and causing the collected whole blood to pass through the leukocyte removal filter.
- 25. A leukocyte removal filter for a leukocyte removal method for removing leukocytes from a leukocyte-containing liquid, comprising: nonwoven fabric having an average fiber diameter of 0.3 to 3.0 μm and a formation index y of 50 or less corresponding to a thickness of 0.3 mm.
- 26. The leukocyte removal filter according to claim 25, wherein the nonwoven fabric has a filling rate of 0.05 to 0.30.
- 27. The leukocyte removal filter according to claim 25 or 26, wherein the nonwoven fabric has a formation index y of 50 or less corresponding to a thickness of 0.3 mm, and y satisfies the following inequality.
 - y < -4 × average fiber diameter of nonwoven fabric (μ m) + 55
 - 28. The leukocyte removal filter according to any of claims 25 to 27, wherein the

nonwoven fabric is obtained by using a melt-blown method.

- 29. A leukocyte removal filter, comprising: a filter for removing aggregate upstream of the nonwoven fabric according to any of claims 25 to 28 and/or a post-filter downstream of the nonwoven fabric.
- 30. The leukocyte removal filter according to any of claims 25 to 29, comprising a flat filter having an inlet and an outlet for liquid.
- 31. The leukocyte removal filter according to any of claims 25 to 29, comprising a cylindrical filter having an inlet and an outlet for liquid.
- 32. The leukocyte removal filter according to claim 30, wherein a container of the filter is formed of a flexible resin.
- 33. The leukocyte removal filter according to any of claims 25 to 32, wherein the leukocyte removal filter is used to remove leukocytes from the leukocyte-containing liquid selected from whole blood, red cell concentrate, platelet concentrate, platelet rich plasma, and platelet poor plasma.
- 34. A blood extracorporeal circulation device for blood, comprising: at least the leukocyte removal filter according to any of claims 25 to 33.
- 35. A blood extracorporeal circulation device for blood, comprising at least: the leukocyte removal filter according to any of claims 25 to 33; an inlet for introducing whole blood collected from a body of a patient into the leukocyte removal filter; and an outlet for returning the leukocyte-free whole blood to the body of the patient.